FIG. 1

FIG. 2A

5 '				GAG						GCT								
			65	TCG		74			83			92			101			110
			119	ATC		128			137			146 AGC			155		 AGA	164
	ልጥር	GAG	173 GAG	3 CTG	ርጥጥ	182 CAT		Стт	191 GTC		GCA	200 TTG		GAG	209 AGC		GAG	218 CAA
											-							
	M	Ε	Е	L	V	H	D	L	V	S	Α	L	Ε	Ε	S	S	E	Q
			227			236			245			254	~~-		263			272
	GCT	CGA	GGT	GGA	TTT	GCT	GAA	ACA	GGA	GAC	CAT	TCT	CGA	AGT	ATA	TCT	TGC	CCT
	A	R	G	G	F	Α	E	Т	G	D	H	S	R	S	I	s	С	P
			281			290			299			308			317			326
	CTG	AAA	CGC	CAG	GCA	AGG	AAA		AGA	GGG	AGA	AAA	CGG	AGG	TCG	TAT	AAT	GTG
	L	K	R	Q	Α	R	К	 R		G	R	K	R	R	S	Y	N	v
			225			244						262			271			200
	CAT	CAC	335 CCG	TGG	GAG	344 ACT	GGT	CAC	353 TGC		AGT	362 GAA	GGC	TCT	371 GAT	TCT	AGT	380 TTA
													-					
	Н	Н	P	W	Е	Т	G	Н	С	L	S	E	G	S	D	S	S	L
	C 7 7	~~~	389	AGC	7 7 C	398	ጥአጥ	א כי א	407	ייי א א	מאמ	416	ייי א א	ידי א א	425	73 73 73	ርኒአጥ	434
		GAA																
	E	E	P	S	K	D	Y	R	E	N	Η	N	N	N	K	K	D	H
			443			452						470			479			488
	AGT	GAC	TCT	GAT	GAC	CAA	ATG	TTA	GTA	GCA	AAG		AGG		TCA	TCA	AAC	TTA
	S	D	S	D	D	Q	M	L	V	Α	K	R	R	P	s	s	N	L
			497			506			515			524			533			542
	AAT	AAT		GTT	CGA		AAA	AGA			TGG		GAG	TCT			GCT	-
	n	N	 N		 R	 G	 К	 R	 Р		w	н	 E	s	D	F	 А	v
						F.C.0			560			E 70			F07			F06
	GAC	AAT	551 GTT	GGG	AAT	560 AGA			569 CGC		AGG	578 AGA		GTA	587 AAA		ATG	596 GCA
	D	N	V	G	N	R	Т	L	R	R	R	R	K		K	R	М	A
	GTA	GAT	605 CTC	CCA	CAG	614 GAC				AAA				ACC	641 CAG		CCT	650 GAG
	 V	 D	 L	 P	 Q	 D	 I	 S	N	 К	R	т	 M	 T	 Q	 P	 P	 E
	•	_			~						-			-	_			
	GGT	TGT	659 AGA	GAT	CAG	668 GAC		GAC		GAT	AGA	686 GCC		CAG	695 TAT		GAA	704 TTT
	G		R	D	Q	D	M	D	S	D	R	A	Y	Q	Y	Q	E	F

FIG. 2B

ACC	AAG	713 AAC	AAA	GTC	722 AAA	AAA	AGA	731 AAG	TTG		740 ATA	ATC	AGA	749 CAA	GGA	CCA	758 AAA
Т	K	N	K	v	K	K	R	K	L	K	I	I	R	Q	G	P	K
ATC	CAA	767 GAT	GAA	GGA	776 GTA	GTT	TTA	785 GAA	AGT	GAG	794 GAA	ACG	AAC	803 CAG	ACC	AAT	812 AAG
I	Q	D	E	G	V	v	L	E	s	E	E	Т	N	Q	Т	N	K
GAC	AAA	821 ATG	GAA	TGT	830 GAA	GAG	CAA	839 AAA	GTC	TCA	848 GAT	GAG	CTC	857 ATG	AGT	GAA	866 AGT
D	K	М	E	С	E	E	Q	K	V	s	D	E	L	М	s	E	s
GAT	TCC	875 AGC	AGT	CTC	884 AGC	AGC	ACT	893 GAT	GCT	GGA	902 TTG	TTT	ACC	911 AAT	GAT	GAG	920 GGA
D	s	s	s	L	s	S	Т	D	A	G	L	F	Т	N	D	Е	G
AGA	CAA	929 GGT	GAT	GAT	938 GAA	CAG	AGT	947 GAC	TGG	TTC	956 TAC	GAA	AAG	965 GAA	TCA	GGT	974 GGA
R	Q	G	D	D	E	Q	S	D	W	F	Y	E	K	E	s	G	G
GCA	TGT	983 GGT	ATC	ACT	992 GGA	GTT		CCC	TGG		L010 GAA	AAG	GAA	L019 GAT	CCT		1028 GAG
A	С	G	I	Т	G	V	V	P	W	W	E	K	E	D	P	Т	E
CTA		1037 AAA	AAT		L046 CCA	GAT		L055 GTC	TTT		1064 AGT	ATC	TTA	L073 ACT	GGT	TCT	1082 TTT
CTA L			AAT N			GAT D			TTT F			ATC			GGT G		
L	GAC D	AAA K 1091	N	GTA V	CCA P L100	D	CCT P	GTC V V	 F	GAA E	AGT S L118	I	TTA L	ACT T L127	 G	TCT	TTT F 1136
L	GAC D	AAA K 1091	N	GTA V	CCA P L100	D	CCT P	GTC V V	 F	GAA E	AGT S L118	I	TTA	ACT T L127	 G	TCT	TTT F 1136
CCC	GAC D CTT L	AAA K 1091 ATG M	N TCA	GTA V CAC	CCA P L100 CCA P	D AGC	CCT P AGA R	GTC V L109 AGA R	F GGT G	GAA E TTC F	AGT S L118 CAA Q	I GCT A	TTA L AGA R	ACT T L127 CTC L	G AGT S	TCT s CGC R	TTT F 1136 CTT L
CCC	GAC D CTT L GGA	AAA K 1091 ATG M	TCA S TCT	GTA V CAC H TCA	CCA P L100 CCA P L154 AAG	AGC S AAT	CCT P AGA R ATT	GTC V L109 AGA R L163 AAA	GGT G	GAA E TTC F	AGT S L118 CAA Q L172 GGA	GCT A	TTA L AGA R	ACT T L127 CTC L L181 CCA	AGT S ACT	TCT S CGC R TCA	TTT F 1136 CTT L
CCC P CAT H	GAC D CTT L GGA GGA	AAA K 1091 ATG M 1145 ATG M	TCA S TCT S CCT	GTA V CAC H TCA S GGC	CCA P 1100 CCA P 1154 AAG K 1208 CCA	AGC S AAT N	CCT P AGA R ATT I GGT	GTC V 1109 AGA R 1163 AAA K	GGT G AAA AAA	GAA E TTC F TCT S AGA	AGT S L118 CAA Q L172 GGA G L226 ATG	GCT A GGG G GTT	TTA L AGA R ACT T	ACT T L127 CTC L L181 CCA P	G AGT S ACT T	TCT S CGC R TCA S	TTT F 1136 CTT L 1190 ATG M
CCC P CAT H GTA	GAC D CTT L GGA G CCC	AAA K LO91 ATG M L145 ATG M L199 ATT	TCA S TCT S CCT	GTA V CAC H TCA S GGC	CCA P 1100 CCA P 1154 AAG K 1208 CCA	AGC S AAT N GTG	CCT P AGA R ATT I GGT	GTC V V 1109 AGA R 1163 AAA K 1217 AAC	GGT G AAA AAA	GAA E TTC F TCT S AGA	AGT S L118 CAA Q L172 GGA G L226 ATG	GCT A GGG GTT	TTA L AGA R ACT T	ACT T L127 CTC L L181 CCA P L235 TTT	AGT S ACT T TCC	TCT S CGC R TCA S	TTT F 1136 CTT L 1190 ATG M
CCC P CAT H GTA V	GAC D CTT L GGAA G	AAA	TCA S TCT S CCT	GTA V CAC H TCA S GGC G	CCA P 1100 CCA P 1154 AAG K 1208 CCA P	AGC S AAT N GTG V	CCT P AGA R ATT I GGT G	GTC V 1109 AGA R 1163 AAA K 1217 AAC N	GGT G AAA Ř AAG	GAA E TTC F TCT S AGA R	AGT S 1118 CAA Q 1172 GGA G 1226 ATG M 1280	GCT A GGG GTT V	TTA L AGA R ACT T CAT H	ACT T 127 CTC L 181 CCA P 1235 TTT F 1289	AGT S ACT T TCC S	S CGC R CCG P	TTT F 1136 CTT L 1190 ATG M 1244 GAT D
CCC P CAT H GTA V TCT	GAC D CTT L GGAA G CCCC P	AAA K LO91 ATG M 1145 ATG M 1199 ATT I 1253 CAC	TCA S TCT S CCT P	GTA V CAC H TCA S GGC G GAC	CCA	AGC S AAT N GTG V	CCT P AGA R ATT I GGT G TTT	GTC V 1109 AGA R 1163 AAA K 1217 AAC N 1271 AGC	GGT G AAA AAG K CCT	GAA E TTC F TCT S AGA R	AGT S 1118 CAA Q 11772 GGA ATG M 1280 GCT	GCT A GGG GTT V AGG	TTA L AGA R ACT T CAT H	ACT T 127 CTC L 181 CCA P 1235 TTT F 1289 GAG	AGT S ACT T TCC S CAT	S CCGC P GAC	TTT F 1136 CTT L 1190 ATG M 1244 GAT D 1298 CAG
CCC P CAT H GTA V TCT S	GAC D CTT L GGAA G CCCC P CAT H	AAA K	TCA S TCT S CCT P CAT	GTA V CAC H TCA S GGC G GAC	CCA P 1100 CCA AAG CCA K 1208 CCA P 1262 CAT H 1316	AGC S AAT N GTG V TGG W	CCT P AGA R ATT I GGT G TTT F	GTC V 1109 AGA R 1163 AAA K 1217 AAC N 1271 AGC S 1325	GGT G AAA AAG K CCT P	GAA E TTC F TCT S AGA R GGG G	AGT S 1118 CAA Q 1172 GGA ATG M 1280 GCT A 1334	GCT A GGG GTT V AGG R CAC	TTA L AGA R ACT T CAT H ACA	ACT T 127 CTC L 181 CCA P 1235 TTT F 1289 GAG E 1343	AGT S ACT T TCC S CAT H	S CCG P GAC	TTT F 1136 CTT L 1190 ATG M 1244 GAT D 1298 CAG Q 1352

FIG. 2C

		1361			L370			L379									L406
GTG 	AGA	ACA	GCC	AGC	AGG	CAA		AGC		CAT	TTA	GGA	TCC	TTA	TGC	ACG	GGA
V	R	T	Α	S	R	Q	T	S	M	H	L	G	S	L	С	T	G
		1415			L424			1433						.451			L460
		AAA					GCT	GCA	CCT	TTG	CCT	GGA	CCT	ACT	ACT	GCA	GGA
D			R	R	R	ĸ	А	A	Р	L	P	G	P	Т	Т	A	G
		1469			L478			1487		1	1496		1	505		-	1514
TTT		GGT	GAA	AAT	GCC							AAT	ATT	GGA	AAC	CGA	ATG
F	v	G	E	N	A	Q	P	I	L	E		N	I	G	N	R	М
		1523			1532		:	1541			1550		1	1559		-	1568
CTT		AAT	ATG						TCA		CTT						GGG
L	Q	N	 М	G	W	 Т	P	G	S	G			R	D	G		G
		1577			1586			1595			1604		1	L613			1622
ATC		GAG	CCA			GCC									CTT		
 I	 S	 E	 Р	 I	 Q	 A	 М		 R	 Р	K	G		G	L	 G	F
		1 () 1			1640			1649			1658			L667			1676
CCT		1631 CCA	AAA			TCC			ACT			AAT			AAA		
 P	 T.	 P	 K	 S	 T	 S	 A	 T	 T	 T	 P		 A	 G	 K	 S	 A
-		_	1.							_							
TAA		1685 . AAG	CAA		1694 AGA	AAT		1703 TTA						1721 ATG			1730 TGT
•																	
ጥርጥ		1739 ATG															1784 CAA
ACA	САТ	1793 CAC	тст		1802 TTC	СТТ		1811 GCA	TAC		1820 CCT			1829 GTG	AGA		1838 ATG
GGA		1847 CAT	CAC		1856 TCA	TGG		1865 TAA	AAT		1874 AAC			1883 ACT			1892 TTT
																	 1946
TTC	AGT	1901 ' AAT	TTC		1910 CTA			1919 GGT			1928 AGC			1937 TTT			
		 1955			 1964			 1973			 1982			 1991			
	TTA	GTC		TGT	GTC	AAT	ACT	TTC	CGA	TGC	TTT	GCT	TAA				
		2009			 2018			 2027						 2045			 2054
TGC	AGI	GCT	GCA	ATG	CCC	AGA	CAA	ACG	TGA	GCA	CAC	CCA	CCA	GTT		AAA	ATG
		 2063			 2072			 2081			 2090			 2099			2108
		ACA		AAA	GAT	TGT	GTT	TTA	TAT	CAT	CCC	TAT	CTA	TTG	TAA	CCC	AAA
		 2117															
		' ACC															

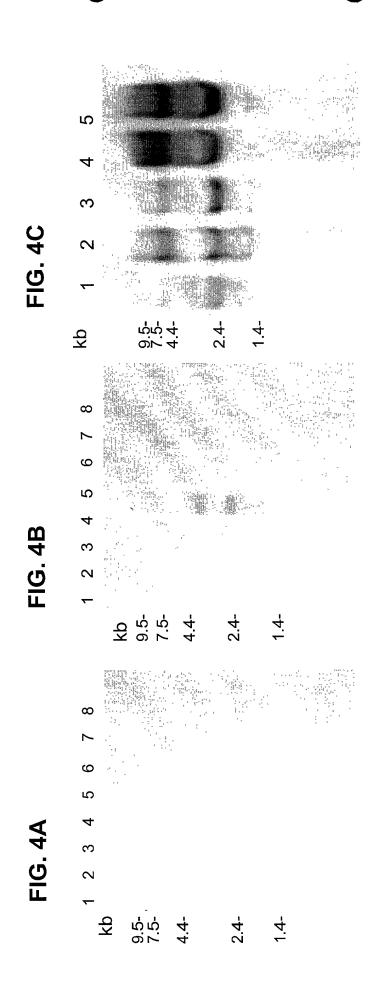
FIG. 2D

	2171		218)	2189		2198		2207	2216		
CAA	TTT CAT	ATT	CCT TG	A ATT	GGC TTC	TTG	GTG AGG	ATT	TTC TGA	CAG	AGT GAT	
	2225	5 2234			2243		2252		2261	2270		
ACC	CAT CAA	TTT	TCT AT	C CTT	AGA CAA	TGT	AGT GTG	AAG	TTC ACA	GTT	GAC AAA	
	2279		2288		2297		2306		2315	2324		
CAA	CAA TTA	ATG	TTT CC	C TTG	GAT GTT	TTG	ACA AAA	ATA	AAC CTC	ATC	GTT GTT	
	2333 2342											
	2333		234	2								
ATC	2333 ACC AAA	AAA			AA 3'							

FIG. 3A

4	MDELVHD	LASA.	LEQT	SEQN	KLG-	-ELW	EEMA:	LSPR	QQR	RQL	RKF	RGR	KRRS	S-DE	THL	AEH
1	MEELVHD	LVSA	LEES	SEOA	RGGF	AETGI	DHSR	SISC	PLK	ROA	RKF	RGR	KRRS	ZYNV	/ННР	WET
	* ****			***	*								***		*	*
																~
	TCCYSEA														~	
61	GHCLSEG	SDSS:	LEEP:	SKDY	RENH	NNNK	KDHS	DSDD	QML	VAK	RRI	SSN	LNN	IVR C	KRP:	LWH
	* **	* **	* *	**	**		*	***	*	***	* *	,	**	*	*	**
116	ESDSFTE	אזא סכיי	ום.זמס	שססע	יינסעני	repu:	A A CT.	OKT.	V77C	ישרו:	VEL	מכים	FKCI	VKK	יס.ד.פו	DMK
															-	
121						AVDL.	PQDT:		T.M.T	Ç	ILLE			4DSL	DRAY	ŲΥŲ
	***	*	* **	***	***			*				***	:		*	
1.76	ENTPWTS	SGH-		GL	CESA	ENRT	FLSK	TGRK	ERM	ECE	TDE	OKO	GSDI	ENMS	SECE	TSS
179	EFTKNKV															
113	EF I KNICV	KKKKK.	DICT T	.cog.	~	± 0 0 0 .	*	n 1146	TIAL	10101	11201	mQr		k ***		**
	* *			~		*	*				,	•	**	* * 7		* *
229	VCSSSDT	GLFT!	NDEG	RQGD	DEQS:	DWFY:	EGEC	VPGF'	TVF	NLL	PKV	IAPI	HCSI	EVE	RM	DSG
239	L-SSTDA	GLFT	NDEG	ROGD	DEOS	DWFY:	EKES	GGAC	GIT	'GVV	PWV	EKE	DPTI	SLDE	KNVP	DPV
	** *										* *			k		*
			D. G.D. D.				D. 43 3 3		D 77							
287	LDKFSDS															
298	FESILTG	SFPL	MSHP	SRRG	FQAR.	LSRL	HGMS	SKNI	KK							
		* *	* *	**	*	* **	*		*							

FIG. 3B



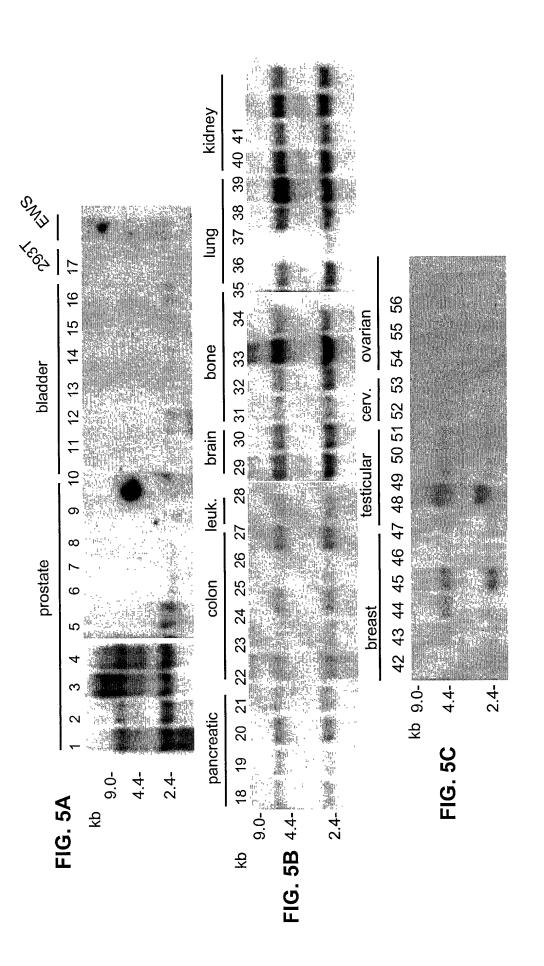


FIG. 6

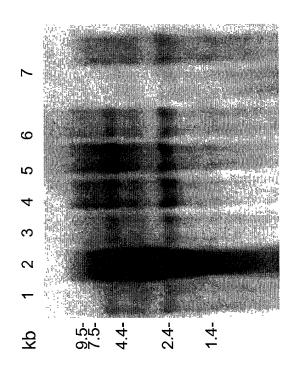


FIG. 7

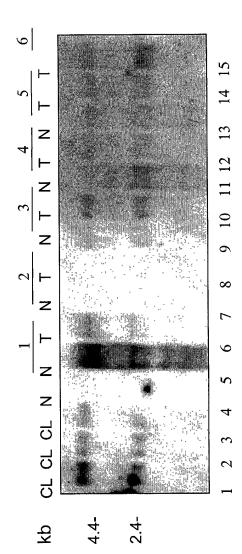


FIG. 8

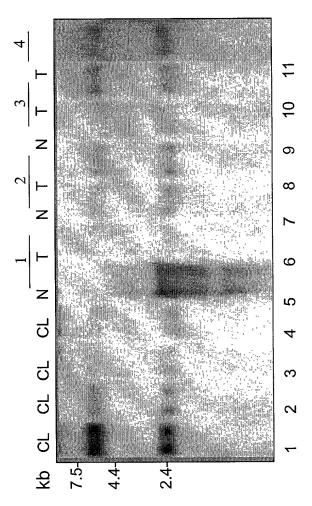
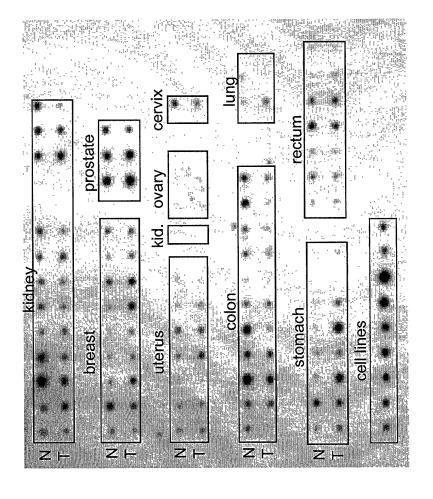
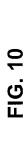


FIG. 9





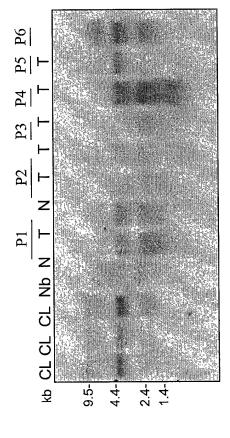


FIG. 11

